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US EPA RECORDS CENTER REGION 5

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PRC

PRELIMINARY ASSESSMENT/ VISUAL SITE INSPECTION

GE AVIATION SERVICE CENTER CINCINNATI, OHIO OHD 000 817 304

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, DC 20460

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RELEACILY 2/24/19
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EXECUTIVE SUMMARY

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PRC Environmental Management, Inc. (PRC), performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the General Electric Aviation Service Center (GE) facility in Cincinnati, Ohio. This report summarizes the results of the PA/VSI and evaluates the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment document (EPA Form 2070-12) is included in Attachment A to assist in prioritization of RCRA facilities.

The GE facility has operated at 1350 Tennessee Avenue since 1975, and currently employs 175 people working three shifts a day. The plant occupies approximately 38,300 square feet of the site's nearly 42,500 square feet. GE repairs high-pressure jet aircraft engine turbine blades. These parts are shipped to the facility from commercial airline repair centers for repair and rebuilding. Small, high pressure turbine blades are individually inspected to determine if the part can be repaired or needs to be replaced. A variety of welding, grinding, and special coating operations are performed during repair and reconditioning of the blades.

Solvent cleaning, grit-blasting, acid-etching, protective coating, and electric discharge machining operations are the primary waste generation activities at the site. Hazardous wastes managed on-site, past and present, include D001, D002, D007, F001, F002, and F006. Two RCRA permitted hazardous waste units underwent certified closure on September 28, 1990, and the facility is currently considered a generator that stores hazardous wastes for less than 90 days.

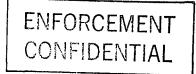
The PA/VSI identified the following 4 SWMUs at the facility:

Solid Waste Management Units

- 1. Existing Hazardous Waste Container Storage Area
- 2. Former Hazardous Waste Container Storage Area
- 3. Neutralization Pit and Chemical Room Area
- 4. Grit Blast and Codep Powder Dust Collectors

The potential for a release to ground water is low to moderate. The neutralization pit (SWMU 3) is a 16-year old in-ground, resin-coated, 650-gallon fiberglass tank. The pit is used to treat wastewater prior to release to the Cincinnati Metropolitan Sewer District. No secondary containment structures exist for the tank. Ground water use is limited to a few industrial sites located about 2 miles east (upgradient) of the facility.

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The potential for a release to soil and surface water is low to moderate. A release from the neutralization pit into surrounding soil and ground water could migrate off site and seep into Ross Run. Ross Run is an intermittent stream located about 400 feet south of the unit. No monitoring system exists to detect a release from the neutralization pit.

The grit blast and Codep powder dust collectors have a high potential for future release. A release was observed from this unit during the visual site inspection on April 15, 1991. The grit blast dust material is composed primarily of aluminum oxide, and is disposed of as non-hazardous waste in a sanitary landfill. The dust is covered immediately due to the hazard posed by its small particle size. Dust from the grit blast collectors was found 10 to 15 feet from the unit.

There is limited access to the solid waste management units at the facility. All SWMUs are protected by 6-foot high security fences. However, due to the observed release from SWMU 4, the facility will continue to pose a high potential for release to the air. The facility should be advised to document inspections of collectors daily to prevent the escape of dusts collected by the units. The 6-foot-high security fence and windbreak surrounding the unit does not prevent the spread of this waste. The 175 GE employees are the primary receptors for any release from this facility. Proper monitoring of this unit should reduce the potential for further releases. In addition, the facility should certify the integrity of the 16-year old neutralization pit. Enforcement of these requirements would substantially reduce the potential for releases from this facility.

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), received Work Assignment No. C05087 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC). The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility.
- Obtain information on the operational history of the facility.
- Obtain information on releases from any units at the facility.
- Identify data gaps and other informational needs to be filled during the VSI.

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA.
- Identify releases not discovered during the PA.
- Provide a specific description of the environmental setting.
- Provide information on release pathways and the potential for releases to each medium.
- Confirm operational, SWMU, AOC, and release information obtained during the PA.

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all SWMUs, identifying evidence of releases,

initially identifying potential sampling locations, and obtaining all information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the General Electric Aviation Service Center (GE) facility OHD 000 817 304 in Cincinnati, Ohio.

The PA was completed on April 15, 1991. PRC gathered and reviewed information from Ohio Environmental Protection Agency (OEPA), Ohio Department of Natural Resources (ODNR), United States Geological Survey (USGS), United States Department of Agriculture (USDA), and from EPA Region 5 RCRA files.

The VSI was conducted on April 15, 1991. It included interviews with GE facility representatives and a walk-through inspection of the facility. Four SWMUs and no AOCs were identified at the facility. A complete EPA Preliminary Assessment document (EPA Form 2070-12) is included in Attachment A. The VSI is summarized and 6 inspection photographs are included in Attachment B. Field notes from the VSI are included in Attachment C.

2.0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations (including waste management practices), waste generating processes, release history, regulatory history, environmental setting, and receptors.

2.1 FACILITY LOCATION

The GE facility is located at 1350 Tennessee Avenue in the north-central part of Cincinnati (latitude 39°10'7" and longitude 84°28'17"). This part of the city is an older, mixed industrial and residential community. GE occupies a 42,500-square-foot site, of which 38,300 square feet are occupied by plant buildings. The GE facility is bordered on the north by B&O Railroad and on the south by Tennessee Avenue (see Figures 1 and 2). GE leases the site from Miller & Miller Real Estate Company.

2.2 FACILITY OPERATIONS

The GE facility has operated at 1350 Tennessee Avenue since 1975 and currently employs 175 people working three shifts a day. The Miller Belt Company occupied the site prior to 1975.

GE repairs and rebuilds high pressure jet aircraft engine turbine blades. These parts are shipped to the facility from commercial airline repair centers. Small, high-pressure turbine blades are individually inspected to determine if the part should be repaired or replaced.

A variety of welding, grinding, machining, and special coating operations are performed during the inspection, repair, and reconditioning of the blades (GE, 1991). Some of these operations produce hazardous wastes and four SWMUs were identified (see Table 1). The existing hazardous waste container storage area (SWMU 1) is located outside in an area west of the main building (see Figure 2). This three-sided shed constructed in 1985 is used to store hazardous wastes with the following EPA codes: D001, D002, D007, F001, and F002 are stored in 55-gallon drums. F006 wastes are stored in 180-gallon tote tanks.

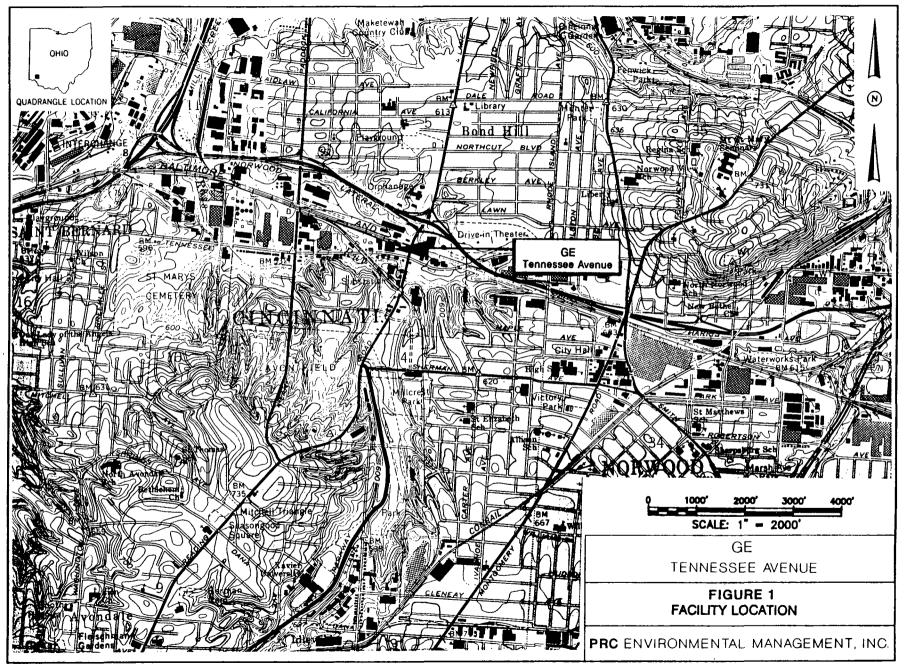
The former hazardous waste container storage area (SWMU 2) is located inside the main plant building at the rear of the loading dock area and is currently used for satellite accumulation. F001, F002, D001, D002, and D007 hazardous wastes are stored single file, two drums deep, on metal trays.

TABLE 1
SOLID WASTE MANAGEMENT UNITS (SWMU)

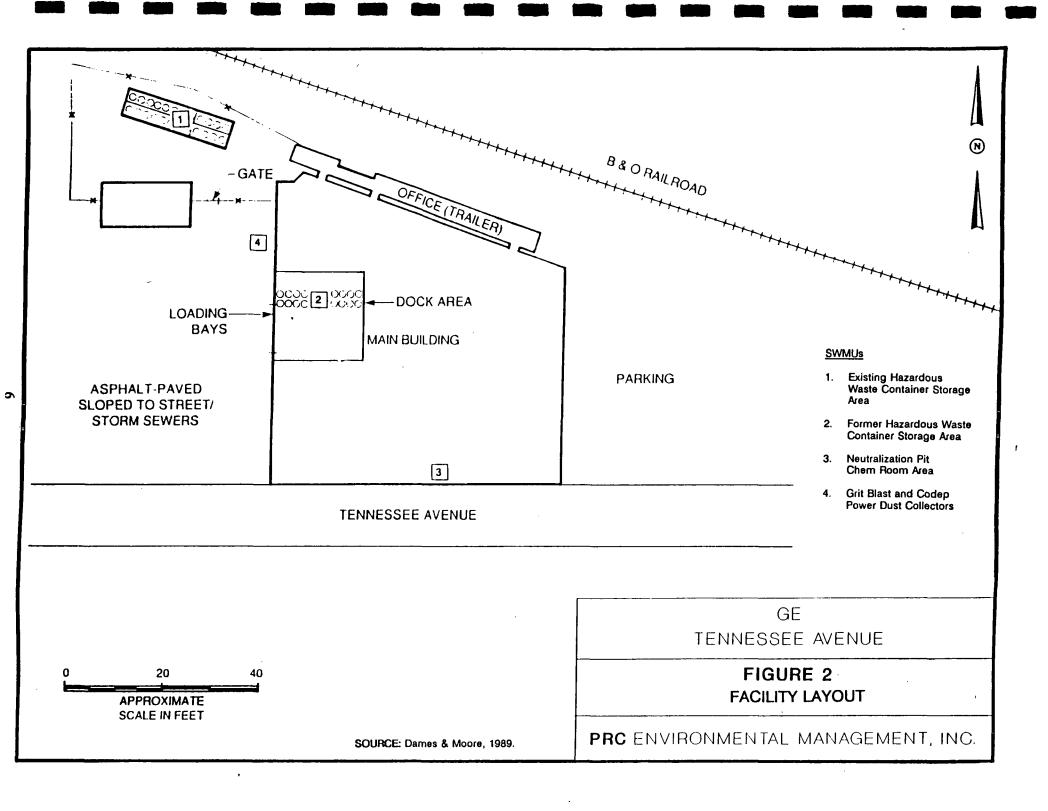
SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit*	Status
1	Existing Hazardous Waste Container Storage Area	Yes	Active, less than 90-days storage
2	Former Hazardous Waste Container Storage Area	Yes	Active, satellite accumulation area
3	Neutralization Pit Chem Room Area	No	Active
4	Grit Blast and Codep Powder Dust Collectors	No	Active

Note:

^{*} A RCRA hazardous waste management unit was one that formerly required a RCRA permit.



SOURCE: USGS 7 ½ Minute Topographical Quadrangle Map, Cincinnati East, Ohio, 1961, photorevised 1981.



The neutralization pit and chemical room area (SWMU 3) is located in the south-central part of the main building. The 650-gallon neutralization pit is at the extreme southern end of the chemical room; the pit contains rinse water generated by nitric and phosphoric acid wash and rinse operations. In addition, satellite acid etch stations located throughout the plant generate muriatic acid, nitric acid, and hydrochloric acid wastewater. These acids drain through polyvinyl chloride (PVC) pipe to the neutralization tank for wastewater treatment (pH adjustment) prior to discharge to the Metropolitan Sewer District (MSD).

Dusts produced by grit blasting and Codep powder-coating operations are managed by three dust collection systems (SWMU 4) located on the west side of the main building. The grit blasting operations use aluminum oxide grit to polish and remove excess coatings and material from parts. The Codep powder-coating operation coats parts with aluminum oxide, titanium, and carbon dust. These dusts are activated by ammonium chloride to apply a depositional coating when the parts are heated in a furnace. The wastes handled by this unit are considered non-hazardous. Because of the airborne susceptibility of the material, these wastes are disposed of in a special section of Browning-Ferris Industries (BFI) solid waste disposal sanitary landfill.

2.3 WASTE GENERATING PROCESSES

A variety of welding, grinding, machining and coating operations are performed during inspection, repair, and reconditioning of the blades. Some of these operations produce hazardous wastes. During the VSI four areas of the GE facility were identified as SWMUs (see Table 1).

The existing hazardous waste container storage area stores: D001, D002, D007, F001, and F002 hazardous wastes in 55-gallon drums. F006 wastes are stored in 180-gallon tote tanks. Wastes stored here are primarily generated from parts cleaning and coating operations. Metal coatings are stripped off of parts in nitric and phosphoric acid wash operations in the Chemical Room, and generate F006 wastes. Three vapor degreasers used in parts cleaning operations generate waste oil contaminated with 1,1,1-trichloroethane. 1,1,1-trichloroethane wastes are also generated by small part cleaning operations. Other wastes stored in this area are the result of aluminum and chromium coatings (Sermaloy-J) applied to parts in the Sermaloy coating room. This process started in 1978, and excess spray, contaminated aluminum foil, paper towels, plastic aprons, gloves, and paper generated by this operation are disposed of as hazardous waste. Ferric chloride etch waste generated in the chemical room is also stored here.

The former hazardous waste container storage area (SWMU 2) is currently used for satellite accumulation. D001, D002, D007 F001, and F002, hazardous wastes are stored in single

TABLE 2
SOLID WASTES

Waste/EPA Waste Code	Source	Primary Management Unit*
1,1,1-trichloroethane/F001, F002	Parts cleaning	1, 2
Liquid N.O.S. (Sermaloy, Acidic phosphate, Acidic chromate, Aluminum, Silicon powder)/D007	Coating Operations	1, 2
Solid N.O.S. (Sermaloy, Acidic phosphate, Acidic chromate, Aluminum, Silicon powder)/D007	Coating Operations	1,2
Waste oil containing 1,1,1-tri- chloroethane/D001, F001	Vapor Degreasers	1
Waste nitric and phosphoric acid /D002, D007,	Metal Stripping	1
Wastewater treatment sludges/F006	Neutralization Pit	1

Source: Dames & Moore, 1989

Note:

* Primary management unit refers to a SWMU that currently manages the waste.

file, two drums deep, on metal trays. Drums are placed 6 feet from the west wall along the aisle railing; drums are then transferred to SWMU 1 when filled. Wastes stored here are generated by the same operations mentioned above. This area was formerly used for additional storage of hazardous wastes prior to closure.

The neutralization pit-chemical room area (SWMU 3) is located in the south-central part of the main building. The neutralization pit handles an estimated 650 gallons of rinse water (at any given time) from nitric and phosphoric acid wash and rinse operations in the chemical room. These operations remove coatings applied to turbine blades. Satellite acid etching stations located throughout the plant generate muriatic acid, nitric acid, and hydrochloric acid wastewaters from metal polishing operations. The wastewaters from these operations are transferred to the neutralization pit for treatment and discharge. The pH is automatically adjusted to between 6 and 10 before the wastewater is discharged to the MSD sanitary sewer. Sodium hydroxide is typically added for pH adjustment. Wastewater from air scrubbers also empties into the neutralization pit for discharge to the MSD.

Dusts produced by grit blasting and Codep powder-coating operations are managed by three dust collection systems (SWMU 4) located on the west side of the main building. The two northern-most dust collectors handle dusts from the grit-blasting operations. The grit-blasting operations blast aluminum oxide grit to remove excess material from the turbine blades. The third collector handles dusts from the Codep powder room coating operations. Operations in the Codep powder room coat parts with a mixture of aluminum oxide, titanium, and carbon. These powder coatings are activated with ammonium chloride to form a coating that is depositionally baked onto the turbine blades.

2.4 RELEASE HISTORY

No releases were documented at the site prior to the VSI on April 15, 1991; however, a release of aluminum oxide grit and dust from the grit-blasting dust collectors (SWMU 4) was observed on the ground around the collectors. In addition, dust was observed overflowing a barrel used to collect the grit-blasting dust.

2.5 REGULATORY HISTORY

Two Part A permit applications have been submitted by the facility in the past 10 years. The original Part A was submitted in August 1980 (GE, 1980). The Hazardous Waste Facility Approval Board granted the site a Hazardous Waste Facility Installation and Operation Permit on December 28, 1981 (HWFAB, 1981). The second Part A permit application was submitted in August 1989 to provide information on current operations at the site (GE, 1989).

On February 28, 1990, closure activities were initiated at the existing and former hazardous waste storage areas of the facility (Dames & Moore, 1990). Closure activities were begun to change the facility's status to that of a generator. The site had been considered both a generator and storage facility since 1981. Closure activities performed include:

- Waste removal
- Containment trays and concrete pad hydroblasting
- Final rinsate sampling
- Wash solution disposal

Following closure activities and rinsate lab analysis, the OEPA granted certified closure to the two hazardous waste storage areas on September 28, 1990. Currently the facility no longer stores hazardous waste for greater than 90 days.

GE has eight air permits associated with vapor degreasers, coating, and welding operations at the facility. No air permit violations have occurred. In addition, the facility does not have any pretreatment or NPDES permits.

2.6 ENVIRONMENTAL SETTING

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the GE facility.

2.6.1 Climate

The climate in Cincinnati is characterized by cold winters and hot summers, with a yearly average temperature of 54°F. The lowest average temperature is 21.7°F in January, and the highest average temperature is 86.8°F occurring in July. Precipitation for southwestern Ohio is well distributed throughout the year. The average yearly amount of precipitation for Hamilton

County is 40.07 inches. Rainfall peaks occur in March at 4.18 inches, with only 2.38 inches of precipitation in October (USDA,1982). The 1-year, 24-hour rainfall average is 2.6 inches and the average yearly net precipitation is 6.0 inches (U.S. Department of Commerce, 1963). The prevailing wind is from the south-southwest, and the highest average wind-speed is 11 miles per hour in winter.

2.6.2 Flood Plain and Surface Water

The GE facility is located in an area with no identified flood hazards (ODNR, 1991). Drainage from the site is about 400 feet to the south, towards a small intermittent stream known as Ross Run. Ross Run discharges to the Mill Creek, the nearest surface water body with year-round water, approximately one mile west of the site. The Mill Creek is currently used as an industrial and residential storm water discharge stream. No recreational use of this surface water body is presently known. The Mill Creek discharges to the Ohio River. The Ohio River is used for recreational boating, fishing, commercial shipping, and supplies drinking water to cities and towns along the river.

2.6.3 Geology and Soils

Hamilton County lies almost on the crest of the Cincinnati Arch, a large anticline running from Tennessee to Canada. The bedrock in the area is Ordovician-age shale, with thin interbedded limestone lenses. During the Tertiary Period of the Cenozoic Era, the Hamilton County area was deeply eroded by a large drainage system, emptying into the ancient Teays River system. Pleistocene glaciation radically altered the drainage system, changing flow directions and filling valleys with glacial valley-train clay, silt, sand, and gravel deposits.

The GE facility is situated in the Norwood Trough, a pre-glacial valley formed by the ancestral Ohio River. This wide (now abandoned) river valley trends northward from the mouth of the Little Miami River, east of Cincinnati via Mariemont, Oakley, and Norwood to Saint Bernard. Here the ancestral Ohio River was joined by the valley of the north-flowing pre-Illinoian Licking River, now occupied by the present day Mill Creek. Overlying the Ordovicianage bedrock are thick deposits of glacial outwash sands and gravel that form an aquifer in the Norwood Trough. The glacial deposits consist of a varied mixture of sand, gravel, and clay. The upper deposits, from 100 to 130 feet thick, consist largely of beds of clay. Beds of sand and gravel exist 130 to 240 feet below the surface and become coarser with depth (ODNR, 1946).

2.6.4 Ground Water

The GE facility is situated over a buried valley aquifer known locally as the Norwood Trough aquifer. The aquifer consists of outwash sands and gravel deposited in the lower part of the deep-stage ancestral Ohio River. A thick layer of clay overlying permeable glacial materials prevents local recharge of the aquifer. Water-level records indicate that a high percentage of the water withdrawn from the aquifer has been obtained from storage (ODNR, 1946).

4.5 million gallons of water per day were withdrawn from the Norwood Trough in 1945 (ODNR, 1946). Wells pumping the Norwood Trough aquifer are screened in the coarser sand and gravel beds located 130 to 240 feet below ground surface. U.S. Playing Cards is located approximately 2 miles east (upgradient) of the site and still pumps 300,000 gallons of water from the Norwood Trough aquifer for cooling equipment.

2.7 RECEPTORS

The GE facility is located in the north-central part of Cincinnati. Based on the 1990 census, an estimated 17,280 people live within 3 miles of the facility (Moran, 1992). This part of the city is an older, mixed industrial and residential community. The area directly east and west of the site is filled with moderate to heavy industry for several miles in each direction; the area north and south of the site contains residential neighborhoods. The nearest residential area is located approximately 1000 feet southwest of the facility. GE employs 175 people working three shifts a day; they are considered the primary receptors.

Ground-water use is limited to a few industrial sites located approximately 2 miles east (upgradient) of the facility. No residential use of the ground water is known. Drinking water for the City of Cincinnati comes from the Ohio River. These intakes are located approximately 9 miles southeast of the facility and nearly 8 miles upstream of the Mill Creek confluence with the Ohio River.

Surface water at the site drains to the south towards a small intermittent stream known as Ross Run. Ross Run discharges to Mill Creek, the nearest surface water body with year-round water, approximately I mile west of the site. The Mill Creek is currently used as an industrial and residential storm water discharge stream. No recreational use of this surface water body is presently known.

A 6-foot high security fence surrounds the existing hazardous waste storage area and dust collection systems, limiting access to these areas.

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the 4 SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of release, and PRC observations.

SWMU 1

Existing Hazardous Waste Container Storage Area

Unit Description:

This unit is located in an outside area west of the main building (see Figure 2 and Photo No.2) and consists of a three-sided shed constructed in 1985. Hazardous wastes are stored in 55-gallon drums and in 180-gallon tote tanks.

Date of Startup:

The unit began operations in 1985.

Date of Closure:

The OEPA granted certified closure of the unit on September 28, 1990. Presently, no wastes are stored in this area for longer than 90 days.

Wastes Managed:

This unit manages 1,1,1-trichloroethane (F001, F002), Liquid Sermaloy, Acidic phosphate, Acidic chromate, Aluminum, Silicon powder (D007), Solid Sermaloy, Acidic phosphate, Acidic chromate, Aluminum, Silicon powder (D007), Waste oil mixture containing 1,1,1-tri-chloroethane (F001), Waste nitric and phosphoric acid (D002, D007), and F006 wastewater treatment sludges (Dames & Moore, 1989).

Release Controls:

Hazardous wastes are stored in a three-sided shed constructed of a 4-inch by 4-inch timber frame clad with fiberglass panels. The south side is exposed. Wastes are stored in 180-gallon tote tanks and 55-gallon drums on an elevated steel grating. Beneath the elevated grating is a 2-foot high concrete containment dike. The area immediately surrounding the unit is paved with asphalt.

History of Release:

No documented release has occurred at this unit.

Observations:

Construction of this unit appears to be structurally sound and in

good condition.

SWMU 2

Former Hazardous Waste Container Storage Area

Unit Description:

This unit is located inside the main plant building in the loading dock area (see Figure 2 and Photo No.1). Containerized hazardous waste is stored in one row, two drums deep. Drums are placed approximately 6 feet from the west wall of the dock area along an aisle railing. The floor is level and constructed of concrete (Dames & Moore, 1989).

Date of Startup:

This unit is used for satellite accumulation of hazardous waste. This unit was used for additional storage of hazardous wastes from 1980 to 1989.

Date of Closure:

The OEPA granted certified closure of the unit on September 28, 1990. Presently, no wastes are stored in this area for longer than 90 days.

Wastes Managed:

This unit manages 1,1,1-trichloroethane (D001) and waste oil containing 1,1,1-trichloroethane (F001).

Release Controls:

Drums are stored in 2.5-feet-wide by 6.4-feet-long steel trays with 7-inch-high curbs (Dames & Moore, 1989).

History of Release:

No documented release has occurred at this unit.

Observations:

Construction of this unit appears to be structurally sound and in good condition.

SWMU 3

Neutralization Pit and Chemical Room Area

Unit Description:

The Chemical Room is located in the south-central part of the main building (see Figure 2 and Photo Nos.3 and 4). This room contains acid baths used to strip coatings off of parts; parts are then rinsed in separate rinse tanks also located in this room. The neutralization pit consists of a 70-inch-long by 48-inch-wide and 72-inch-deep, resin-coated, fiberglass tank (below ground level).

The tank is used to adjust the pH of discharged rinse waters generated from acid stripping and rinsing operations. Wastewater is adjusted to a pH ranging from 6 to 10, prior to discharge to the MSD sanitary sewer. This unit also includes the area just outside the Chemical Room where spent nitric and phosphoric acid solution is transferred to 180-gallon tote tanks prior to transfer to SWMU 1. A 150-gallon in-ground fiberglass tank is also located in this area. This "overflow tank" is used in the transfer of spent nitric and phosphoric acid solution to 180-gallon tote tanks.

Date of Startup:

This unit began operating in 1975.

Date of Closure:

This unit is currently operating.

Wastes Managed:

This unit manages phosphoric and nitric acid, ferric chloride, muriatic acid, and hydrochloric acid.

Release Controls:

The floor of the entire plant and the Chemical Room area are paved with concrete. The acid wash and rinse tanks have a fiberglass secondary containment basin beneath the acid wash and rinse tank system. The secondary containment drains to the neutralization pit. The tanks rest above the containment basin and are supported by steel I-beams.

History of Release:

No documented release has occurred at this unit.

Observations:

Construction of this unit appears to be structurally sound and in

good condition.

SWMU 4

Grit Blast and Codep Powder Dust Collectors

Unit Description:

Three dust collectors are located on the west end of the main building, north of the loading bays (see Photo Nos.5 and 6). The area fenced around this unit is about 10-feet wide and 35-feet long. The two northern-most dust collectors handle waste dust from the grit-blasting operations. Grit-blasting operations use aluminum oxide grit to polish and remove any excess material or coatings from parts. The southern-most dust collector collects

excess dust from the Codep room operations. These operations use aluminum oxide, titanium, and carbon activated by ammonium chloride to form a protective coating on parts. Wastes are collected through a system of hoods designed to capture excess grit and dust. The hoods carry the dust through ducts to the collectors. The grit and dust exit the collectors into 55-gallon drums. These wastes are stored inside the fenced area surrounding the unit.

Date of Startup:

These units began operation in 1978.

Date of Closure:

These units are currently operating.

Wastes Managed:

These units manage aluminum oxide, titanium, and carbon.

Release Controls:

After passing through a canvas funnel located at the base of the dust collection system, dusts are collected in open-top 55-gallon drums. The area around and beneath the dust collectors is paved with asphalt and is enclosed by a locked, 6-foot-high, chain-link fence covered with a plastic material to break the wind.

History of Release:

No documented releases have occurred at this unit. However, during the VSI, PRC observed material thought to be aluminum oxide dust overflowing from a 55-gallon drum beneath the gritblasting dust collector. This material had spilled onto the ground both inside and outside the fence surrounding the unit.

Observations:

These units appear to be in moderately good condition. Two of the three collectors were in operation at the time of the visit. It is not known if there are any operating problems with the non-operable unit. New parts appear to be installed as needed and the unit is painted occasionally to prevent deterioration of the units. Sloppy waste handling conditions contributed to grit blast dusts overflowing the drums.

4.0 AREAS OF CONCERN

PRC identified no AOCs during the PA/VSI.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified 4 SWMUs and no AOC's at the GE facility. Background information on the facility's location, operations, waste generating processes, release history, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, release history, and observed condition, is discussed in Section 3.0. As note in Section 4.0, no AOCs were identified. Following are PRC's conclusions and recommendations for each SWMU. Table 3 identifies the SWMUs at the GE facility and suggested further actions.

SWMU 1

Existing Hazardous Waste Container Storage Area

Conclusions:

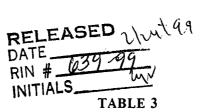
Closure activities for this unit appear to have been properly conducted, and no evidence existed of a release from the unit. At present, the unit stores hazardous waste for less than 90 days. Containment structures appear structurally sound. The probability of a release to environmental media is considered low. The potential for a release to environmental media from this unit is summarized below.

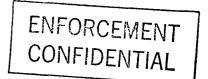
Ground Water: Low. The area surrounding the unit is completely paved with asphalt and the secondary concrete containment dike around the unit is adequate.

Surface Water: Low. The area surrounding the unit is completely paved with asphalt and the secondary concrete containment dike around the unit is adequate. Any spills from this unit would be contained before reaching the nearest surface water body, Ross Run, located about 400 feet south of the unit.

Air: Low to moderate. The potential for contaminant release to the air is considered low to moderate if the integrity of the drums were to be breached. Some drummed waste contains volatile organics which could volatize upon exposure to the air.

On-site soils: Low. There are no exposed soils near this unit. It is unlikely that a spill large enough to reach the nearest exposed soils would occur.





SWMU SUMMARY

<u>SWMU</u>	Operational Dates	Evidence of Release	Suggested <u>Further Action</u>
1. Existing Hazardous Waste Container Storage Area	1985 to present	None	No further action.
2. Former Hazardous Waste Container Storage Area	1980 to present	None	No further action.
3. Neutralization Pit and Chemical Room Area	1975 to present	None	The facility should be advised to certify integrity of the tank walls.
4. Grit Blast and Codep Powder Dust Collectors	1978 to present	Aluminum oxide from the grit-blast collectors	The facility should be advised to inspect collectors daily.



Recommendations: No further action is recommended for this unit.

SWMU 2 Former Hazardous Waste Container Storage Area

Conclusions:

Closure activities for this unit appeared to have been properly conducted, and no evidence existed of a release from the unit. At present, the unit is used as a satellite accumulation area for hazardous waste storage. hazardous waste drums are moved to SWMU 1 when filled. Containment structures appear structurally sound and designed to contain a release from this unit. The probability of a release to environmental media is considered low. The potential for a release to environmental media from this unit is summarized below.

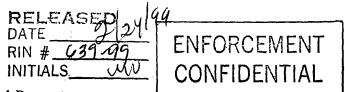
Ground Water: Low. The area surrounding the unit is completely paved with concrete and no cracks were observed. The unit is located indoors, protected from the weather. Secondary containment is provided by steel trays surrounding the drums.

Surface Water: Low. The area surrounding the unit is completely paved with sound concrete and is located indoors. Secondary containment is provided by steel trays surrounding the drums to contain potential spills. Any spills from this unit would be contained before reaching the nearest surface water body, Ross Run, located about 325 feet south of the unit.

Air: Low. The potential for contaminant release to the air is considered low if the integrity of the drums were to be breached. This is due to the indoor location of the unit, and quantity of volatile waste stored (1-2 drums).

On-site soils: Low. No exposed soils are near this unit. A spill large enough to reach the nearest exposed soils is unlikely.

Recommendations: No further action is recommended this unit.



SWMU 3 Neutralization Pit and Chemical Room Area

Conclusions:

This unit is properly monitored and maintained, and no evidence exists of a release from the unit. Primary containment structures appear structurally sound; however, no secondary containment exists for the in-ground, fiberglass, and resincoated neutralization pit tank. The probability of a release to environmental media is considered low to moderate due to the age of the tank. The potential for a release to environmental media from this unit is summarized below.

Ground Water: Low to moderate. The chemical room area is located indoors and is paved with concrete. The neutralization pit is an in-ground, fiberglass, resincoated tank capable of handling 650 gallons of wastewater. No secondary liner exists should the integrity of the tank walls fail. The tank was installed in 1975, and the integrity and structural condition of the tank could not be verified during the VSI.

Surface Water: Low. The neutralization pit is located below ground and poses a low threat to surface water.

Air: Low. The potential for contaminant release to the air is considered low. Wastewater handled by this unit does not pose a problem to this media.

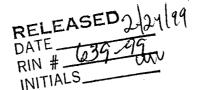
On-site soils: Low to moderate. Subsurface soils could potentially become contaminated by a release from the neutralization tank should the integrity of the tank be breached.

Recommendations: The facility should be advised to certify integrity of the tank walls.

SWMU 4 Grit Blast and Codep Powder Dust Collectors

Conclusions:

These units are generally in good condition. However, the management of the waste dusts collected by this unit is poor. A release of grit-blast dust to the area immediately surrounding this unit was observed during the VSI. The probability of a future release to environmental media is considered high due to the waste management practices for this unit. The potential for a release to environmental media from this unit is summarized below.





Ground Water: Low. It is unlikely that a release from this unit would result in contamination of ground water. The area around the unit is paved with asphalt, preventing a release from reaching ground water.

Surface Water: High. The potential for a release to surface water is considered high due to the release observed during the VSI. Surface water runoff could carry wastes to nearby stormwater drains and to Ross Run.

Air: High. The potential for contaminant release to the air is considered high. Dust collected by this unit were observed to have been carried 10 to 15 feet from the collection drums.

On-site soils: Low. The site is almost completely paved, and no soils are exposed.

Recommendations: The facility should be advised to inspect collectors daily.

REFERENCES

- Dames & Moore, 1989. GE Modified Closure Plan for Hazardous Waste Container Storage Areas, June 5.
- Dames & Moore, 1990. GE Existing and Former Hazardous Waste Container Storage Area Closure Certification, June.
- GE, 1989. Part A Permit submitted to OEPA, August.
- GE, 1980. Part A Permit submitted to OEPA, August.
- Hazardous Waste Facility Approval Board (HWFAB), 1981. Permit for Hazardous Waste Storage Units at the GE facility, December 28.
- Moran, 1992. Telephone Conversation with Dick Moran, City of Cincinnati Planning Department, and Gabe Rood, PRC, April 23.
- Ohio Department of Natural Resources (ODNR), 1946. Ground Water Conditions in Butler and Hamilton Counties, Ohio Division of Water, Bulletin 8, May.
- ODNR, 1991. Janice Gartner, Environmental Technician memo to Gabe Rood PRC Environmental Management, Inc., April.
- Ohio Environmental Protection Agency (OEPA), 1990. Letter from Thomas E. Crepeau, to Mark Wanek (GE), Regarding Ohio Permit No. 05-31-0376, HW Container Storage Unit Completion of Closure Process, September 28.
- U.S. Department of Agriculture (USDA), 1982. Soil Survey of Hamilton County.
- U.S. Department of Commerce, 1963. Rainfall Frequency Atlas of the United States. Technical Paper No.40, U.S. Government Printing Office, Washington D.C.
- United States Geological Survey (USGS), 1981. 7.5 Minute Topographical Quadrangle Map, Cincinnati East, Ohio.

ATTACHMENT A

EPA PRELIMINARY ASSESSMENT FORM 2070-12



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTI	FICATION
OI STATE	02 SITE NUMBER
он І	OHD000817304

II. SITE NAME AND LOCATION							
01 SITE NAME (Legal, common, or descriptive name of	site)		02 STREET	, ROUTE NO., C	R SPECIFIC LOCA	TION IDENTIFIER	
GE Aircraft Engines			1350 Tenn	essee Avenue			
Aviation Component Service Center							
03 CITY		1	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Cincinnati			он	45229	Hamilton	CODE	DIST
09 COORDINATES: LATITUDE	LONGITUDE				<u> </u>	<u> </u>	
39° 10′ 07 .0"	84° 28′ 17 .0"						
10 DIRECTIONS TO SITE (Starting from nearest public r	oad)	<u></u>					
1-75 North from downtown Cincinnati to the Norwo			ading Road	i exit and turn ri	ght onto Reading	Road. Proceed on	Reading Road and turn
III. RESPONSIBLE PARTIES			· · · · · ·				
01 OWNER (if known)			02 STREET	(Business, mail	ing residential)		
M. Elizabeth Miller				20109 Waters E	_		
03 CITY				05 ZIP CODE	-	NUMBER	·
Boca Raton		1	FL STATE	33434	(513) 241-310		
07 OPERATOR (If known and different from owner)				(Business, mail			
GE Aviation Service Operation		- 1		ewman Way	my, residential)		
O9 CITY				11 ZIP CODE	12 TELEPHONE	NUMBER	
Cincinnati			OH	45215	(513) 243-519		
13 TYPE OF OWNERSHIP (Check one)					1,010, 240-019		
☑ A. PRIVATE □ B. FEDERAL:			C. STA	TF 13	D. COUNTY	E. MUNICIPA	l
(Agei	ncy namel	-	_ 0.014	-	D. 000	E. MONGIA	_
□ F. OTHER			G. UNK	NOWN			,
F. OTHER(Specify)			- 0. 0				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check	all that apply)						
☐ A. RCRA 3001 DATE RECEIVED: / / MONTH DAY YE	D B. UNC	ONTROLLED	WASTE SI	TE (CERCLA 10.	3 c) DATE RECE	IVED:/	/ IZC. NONE
MONTH DAY YE	AR					MONTH DAY	PEAR
IV. CHARACTERIZATION OF POTENTIAL HA	ZARD				· **		
01 ON SITE INSPECTION BY (Check	all that apply!						-
DI A. EPA DI YES DATE <u>4/15/91</u> DI E	B B. EPA CONT	RACTOR	0 0	C. STATE		CONTRACTOR	
□ NO	. LOOME HEME!	, 0, , , 0, , , ,	- '	. Official	(Specify)		-
CONTRAC	TOR NAME(S): P	RC Environn	nental Mar	nagement, Inc.			
02 SITE STATUS (Check one)		03 YEARS	OF OPERA	ATION			
SE A. ACTIVE DE B. INACTIVE DE C	. UNKNOWN		197	5 Present		□ UNKNOWN	
		BEGINN	ING YEAR EN				
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRES	ENT, KNOWN, O	R ALLEGED					
1,1,1-trichloroethane, Sermaloy, Acidic phosphate	, Acidio chromate	e, Aluminum	, Silicon po	wer, Chromium	, Chrome bifluorio	le, Mineral oil, Nick	el chloride, and Waste
oil mixture							
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIR	RONMENT AND/O	OR POPULAT	CION			 	
175 employees working three shifts at the facility		SILL OF OEA					
175 Shiployous Working and Shirts at the Idean	••						
V. PRIORITY ASSESSMENT							
01 PRIORITY FOR INSPECTION (Check one. If high or m	edium is checked,	complete Pa	rt 2 - West	a Information and	l Part 3 - Description	on of Hazardous Co	nditions and Incidents.)
☐ A. HIGH ☐ B. MED		C. LOW			D. NONE		
(Inspection required promptly) (Inspection	required)	(Inspect on	time-availa	ble basis) (N	o further action n	eeded; complete cu	rrent disposition form)
VI. INFORMATION AVAILABLE FROM							
01 CONTACT	02 OF (Agency/C	Organization)					03 TELEPHONE NUMBER
Chris Kotsko		onmental Pro	tection Ag	ency			(513) 285-6357
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY		06 ORGAI	NIZATION	07 TELEPHONE	NUMBER	08 DATE
Gabriel J. Rood			PRO	:	(513) 241-014	9	4 /15/ 91



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTI	FICATION
01 STATE	02 SITE NUMBER
ОН	OHD000817304

☑ A. SOLI	DER, FINES D F. LIQUID GE D G. GAS	(Meesure: must be TON unki	ANTITY AT SITE s of waste quantities independent) nown ARDS		ASTE CHARACTERISTI A. TOXIC B. CORROSIVE C. RADIOACTIVE D. PERSISTENT E. SOLUBLE F. INFECTIOUS G. FLAMMABLE	CS (Check all that apply) H. IGNITABLE II. HIGHLY VOLATILE J. EXPLOSIVE K. REACTIVE L. INCOMPATIBLE M. NOT APPLICABLE
III. WASTE T	YPE		· · · · · · · · · · · · · · · · · · · 			
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASUR	E 03 COM	MENTS	
SLU	SLUDGE					
OLW	OILY WASTE	unknown		+		
SOL	SOLVENTS	unknown				
PSD	PESTICIDES			 		
occ	OTHER ORGANIC CHEMICALS	unknown	 			
ioc	INORGANIC CHEMICALS	unknown	 		_ 	
ACD	ACIDS	unknown	· · · · · · · · · · · · · · · · · · ·			
BAS	BASES	unknown	 	 		
MES	HEAVY METALS	unknown	 			
IV. HAZARI	OUS SUBSTANCES (See Appe	ndix for most frequ	uently cited CAS Nu	ımbersi		
01 CATEGORY		03 CAS NUMBER			05 CONCENTRATION	06 MEASURE OF CONCENTRATION
IOC	Liquid N.O.S. (Sermaloy)	OS CAS MOMBER	90 days	JAL WETTIOD	unknown	CONEAGONE OF CONCENTIATION
IOC	Solid N.O.S. (Sermaloy)		90 days		unknown	
MES	Chrome bifluoride		90 days		unknown	
IOC	Waste nitric acid mix		90 days		unknown	
OLW	Mineral oil		90 days		L	
MES	Nickel chloride		90 days		unknown	
OLW	Waste oil mixture	ļ <u>.</u> —			unknown	
OCC		71-55-6	90 days		unknown	
	1,1,1-trichloroathane	71-55-0	90 days		unknown	
					! 	
			<u> </u>			
		ļ <u>-</u>				
_						
		1				<u> </u>
	CKS (See Appendix for CAS No					
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FI	EDSTOCK NAME	02 CAS NUMBER
FDS			FDS			
FDS			FD\$			
FDS			FDS			
FDS			FDS	1		
VI. SOURCE	S OF INFORMATION (Cite spec	cific references; e.	g., state files, samp	le analysis,	reports)	
VI. SOURCE	S OF INFORMATION (Cite spec Moore, 1989. Modified Closu Part A for GE-Tennessee Avenu	ire Plan for Hazard	g., state files, samp			1



1 M A. GROUNDWATER CONTAMINATION	02 D OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
There is a potential for release to ground water. The 18-ye	par old neutralization pit has no secondary containing	nent and the integrity and structu	ıral condition of the
inknown.			
1 B, SURFACE WATER CONTAMINATION	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Surface water run-off could carry the waste dust to nearby	storm water drains and to Ross Run. Some spilled	grit-blast dusts on the paved grou	ind near the dust co
area were observed during the VSI.			
OI C. CONTAMINATION OF AIR	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
A release of grit-blast dust to the area immediately surrou	inding the dust collectors was observed during th	ne VSI. The potential for contam	ninant release to th
considered high.			
D1 D. FIRE/EXPLOSIVE CONDITIONS	02 D OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None.			
D1 . E. DIRECT CONTACT	02 D OBSERVED (DATE:)	POTENTIAL	O ALLE
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
The spilled dust could be contacted by the workers.			
The spilled dust could be contacted by the workers.			
OLD F CONTAMBIATION OF COLL	O. H. ORCERVED (DATE)	E COTENTIAL	□ ALLEGED
01 D F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	L ALLEGED
(Acres)			
The site is almost completely paved, and no soils are expo	osed.		
01 G. DRINKING WATER CONTAMINATION	02 OBSERVED (DATE:)	□ POTENTIAL	G ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
No residential use of the ground water is known. Drinking	water for the City of Cincinnati comes from the	Ohio River.	
01 H. WORKER EXPOSURE/INJURY	02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 175	04 NARRATIVE DESCRIPTION		
Any potential exposure at the site would most likely affec	t workers on site.		
01 DI. POPULATION EXPOSURE/INJURY	02 D OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: None.	04 NARRATIVE DESCRIPTION		
			



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

DBSERVED (DATE:)	D POTENTIAL POTENTIAL	□ ALLEGED □ ALLEGED
DBSERVED (DATÉ:)	O POTENTIAL	□ ALLEGED
DBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
OBSERVED (DATE:		O POTENTIAL	□ ALLEGED
DBSERVED (DATE:		D POTENTIAL	□ ALLEGED
DATE.		₩ FOTENTIAL	□ ALLEGED
	•		
DBSERVED IDATE:	<u> </u>	D POTENTIAL	□ ALLEGED
	,		_ ,
OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
v			
OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
D HAZARDS			
			
		·	
		X-1	
.y., state files, sample i	anaiysis, repoi	rts)	
im-Status Inspection Fo	rms (1983-19	90).	
	OBSERVED (DATE: OBSERVED (DATE: OBSERVED (DATE:	OBSERVED (DATE:) OBSERVED (DATE:) OBSERVED (DATE:) OBSERVED (DATE:)	OBSERVED (DATE:)

ATTACHMENT B
VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

VISUAL SITE INSPECTION SUMMARY

GE Aviation Component Service Center 1350 Tennessee Avenue Cincinnati, Ohio OHD 000 817 304

Date:

April 15, 1991

Facility Representatives:

Mark Wanek, GE Environmental Safety and Health Officer Paul Anderson, GE Environmental Awareness Team Member David Bryant, GE Environmental Awareness Team Member John Claybern, GE Environmental Awareness Team Member Tom Williams, GE Environmental Awareness Team Member Matt Powers, GE Environmental Awareness Team Member

Inspection Team:

Gabe Rood, PRC Jon Lewis, PRC

Photographer:

Jon Lewis, PRC

Weather Conditions:

Overcast, 63°F, winds 5 to 10 miles per hour from the south, light

rain.

Summary of Activities:

The PRC VSI team was met by Mark Wanek, GE Environmental Safety & Health Officer, and members of the GE Environmental Awareness Team, at 8:30 AM on Monday, April 15, 1991. A kickoff meeting was held to explain the purpose of the inspection and discuss the history of the facility.

The meeting was completed at 9:10 AM. The inspection began with an inspection of the main building production areas and included inspection of the Chemical room area, Codep powder room, Sermaloy coating room, and former hazardous waste container storage area. The grit blast and Codep powder dust collectors and existing hazardous waste container storage area were inspected along with other areas outside the main building.

Following the inspection, PRC held a brief exit meeting with Mark Wanek and left the site at 11:30 AM.



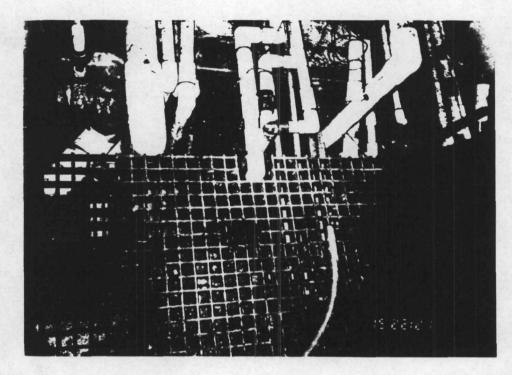
Photograph No. 1
Orientation: Northeast
Description: Former hazardous waste container storage area now used for satellite accumulation; drums are stored inside metal trays.



Photograph No. 2 Orientation: West

Description: Existing hazardous waste container storage area

Location: SWMU 1 Date: April 15, 1991

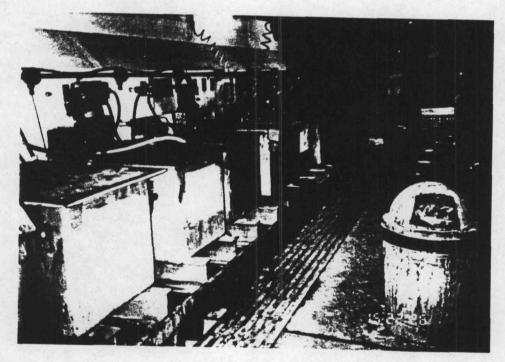


Photograph No. 3

Orientation: South

Description: View looking down into the neutralization pit located along the south wall of the

Chemical room

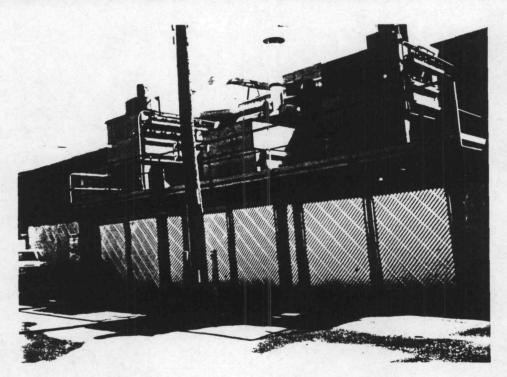


Photograph No. 4

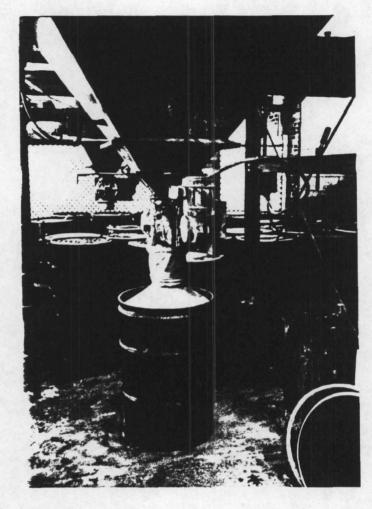
Orientation: South

Description: Chemical room acid and rinse tanks; neutralization pit is located at the base of the

far wall.



Photograph No. 5
Orientation: Northeast
Description: The grit blast and Codep powder dust collectors; the two collectors at the left of handle grit blast dust. The Codep powder collector is on the right. Some spilled grit blast dust can be seen on the ground in front of the center gate.



Photograph No. 6
Orientation: North
Description: Isolated view of the southern-most grit blast collector; note spilled dust on the ground.

ATTACHMENT C
VISUAL SITE INSPECTION FIELD NOTES

4/15/81 24 04/15/91 Monday part, clam perts zon decide whether its come blade if cracked reweld coat via med it exists go below tip cap various atings are applied castings sometimes coatings castings sometimes removed and reappled, that up a rays. 0830 - Weather Overcast, temperature ~ 63°F, winds 5- 10 mph from the south, drizzle roin Location. GE Avistion Service Center at 1350 Tennessee Ave. C.A. OH # OHD 000817304 GE -Mark Wank En' Averness visit fo spranc de fige coursed acids are high Koul Anderson Team numbers David Bryant

John Claybern

Tom Williams + Matthewers ont be discharged to nontralizate

Pit. Rise waters from

these traffinants discharged

through the neutrolization pix each prod unit has a representative Caboue) cover end health + safety at plant 175 employees, 2 shops (manus) repair high pressure Miller belt monufactuer used the building prior to 1975. turbine plades from airline engines, w/creeks assess condition of the

ist - collectors - grit n Hour of biest and sanding ponder and Codep (corrid process the recorting of blades) 1/1 compas excess du & from the Peter For Welding Corrossion and temperature prephorloser well laser well Coder Costings redistent coating applied to the blades con dation redistance -extends like of the black - aluminum x Chromium weste produced by this process)
Torit dust collectors
are found at satellite hem rooms grinding booths 180 gal fore books used for prevent day Ogallons moved existing storage area pumped from A10 ton. 180 gallon to te ton & find from A10 ton & formers of and comens solutions in the existing hazi waste Storage area

N crubber pit for arr xhoust system also en Mis pit, This pit me operation since 1975 Acronic Calonde etch a 190 ander secondary combinment of on the Chem Room - 55 garle rinselwash tanks Fiberglass fank w/resin ra goes to haz, was son drummants of for Chloride stiposed for 70" x 48" (dimensions) ~ 6-76 Heep PH 6-10 Venge monitored continuously and discharged when pH muge no conforment PVC lines bring solutions into truk est ~ (e 50 gallons concrete Hoor in this room 5 odium hydraxide (~50%) used sometimes to manually belance, PH. Na OH 15 5 to monst represent face normally added automatically impendentions | polithing operation +870 CMUNATIC MATRIE CHOU pit and snally discharge & so Satellife accumulation area ton AID TOAL BOOKS for phos / nitre actor (ARD)

alum. foil, paper tourers Vepor blasting operations produce an alum, orde plastic aprons and glowers

Prev Sermolog is a grave
100 king liquid prod.

Farly 80's Nock area

underwent apositive in 1910

prevently satellite accumulation

area. TCE vapor deviaser

111-trichloraethand 255

92110n drums. N.O. S. EQ

1025-fe flammable liquid
(DOO) waste (very small quantics ~ 1-2/bs/nonth) Torits - material from grinding disposed of as solid wester du to size and solubility Grit blasting area - used for grinding of f coating of Codep - outside dust collected (DOD)
(DOD)
(FOO) DOOI)
(POO)
(POO) (odeproom-where powders are mixed and couting applied by powder 3, Hing around perts - fornaces book the powder alum. Oxide (4) Drums Stored here are
stored on a concrete floor
in steel trays with 6 high
eurbs, ~ 8 long and 3 wide titinium and carbon ~700 alun, activited w/ormmonium ch/oride Sirmology aluminum & thromium cooting applied in a booth Coching room started In 1978 excess spray dapped of as

32 3 solvent degreosers in the plant that use Speriell rest on stepl grate 1,1- trichloroethou to degrease parts, waste TCE I fiber glass pene Us. dock of they outside to 1st vaste storge area.

1st vaste storge area. 1002,00 Formic Chiloride NO. S. CAC/ H2NO3) RQ=1,000, waste 2nd ~ 1009 ellar present 3rd-125 50 gallons - operate Stellon concrete floor Steel Secondary contain, logo of nitric phosphoric trap on all 3 tonks 55 gallon drums 1 stored 18092/lon drums - stored un contained next up entire plant is concere Goor - grod condition. Outside - 3 dust collector 2) North - grit 6/254 collector from pod rest an aspect barned is Anced, black topped Grit blast dust rolledor drum is post full over flowing Vibly Area is surrounds. non-harrows was k also stored here for air by fince Hwind breaking instirial drums (53 gellen drans) IN

34 Residential Area on hill 2/10th mile 3w of sixe 119ht industrial area 1/30 Gate Rood and Jon Lewis both of PRC OFF Site.

Roll No: Photo No:	Roll No: Photo No:
Roll No: Photo No: S Date: Time: D'. SO Orientation: NE SWMU/AOC: Location: Observations: 1000000000000000000000000000000000000	Roll No: Photo No: 16 Date: Time: 10!35 Orientation: 5E SWMU/AOC: Location: Observations: Degradue CMALL
Roll No: Photo No: Date: Time: U.YO Orientation: SWMU/AOC; Location: OVELOO W WHIL OF NOG Observations: Got how oust collector DATIONS IM NEGO (NOT SUCE IN OMNY) U. (SWI) COLLECTO (DIMMIS FUEL OUST) WHO GOTIMPS	Roll No: Photo No: 8 Date: Time: 10:40 Orientation: 8 SWMU/AOC: Location: \$\(\) \
Roll No: Photo No: 19 Date: Time: 10:50 Orientation: N SWMU/AOC: Location: HW Space duck Observations: each one	Roll No: Photo No: 20 Date: Time: 10.30 Orientation: SWMU/AOC: Location: See 19 Observations: West one
Roll No: Photo No: Zl Date: Time: 10:50 Orientation: SWMU/AOC: Location: Sel 19 Observations: Old I VIII of III Shoot All 10 20 ambout New he has a	Roll No: Photo No: ZZ Date: Time: 10:50 Orientation: SWMU/AOC: Location: See Ve start go wed NW corn O) hollows Observations: Z Mu dryma not Stored was Stored Start and Stored was

Roll No: / Photo No: / Date: 4/15 Time: 9:15 Orientation: Down SWMU/AOC: No. ACL. P.1 un Cum Ruym Location: (www. Ruym)	Roll No; / Photo No: 2. Date: 4/5 Time: 7:36 Orientation: 5 SWMU/AOC: C. Location: Chean Room
Observations: Pit at continue and of runn cound with 9124 continue (will water & milder of the attention)	Observations: Left (esof) Still
Roll No: 1 Photo No: 3 Date: 4/15 Time: 9:30 Orientation: 5 SWMU/AOC: Location: CWM ROSM	Roll No: 1 Photo No: 4 Date: 4/5 Time: 9:35 Orientation: W SWMU/AOC: White the from Chem form Location: OU KICH CHEM FORM
Observations: Was side of Chum Room	Observations: 180 pull, TUFF Tank NO COMPLET MANT
Roll No: Photo No: S Date: 4/15 Time: 9:35 Orientation: W SWMU/AOC: NCOM9 DALLY FO PH N Location: DOLOW FOTH NOAT FO 180 GEL NOOMS DALLY FOTH DOLOW FOTH Servations: DALLY FOTH VISIALE Servations: DALLY FOTH VISIALE Servations: DALLY FOTH VISIALE DALLY FOTH VISIALE	Roll No: / Photo No: 6 Date: 4/5 Time: 10:10 Orientation: W SWMU/AOC: Location: Codelo Com Observations: USA GOOLD DOWNER, JUMPED PLOY D COLLECTION W OUST COLLECTION
Roll No: 1 Photo No: 7 Date: 4/5 Time: 10:15 Orientation: N SWMU/AOC: Location: Sermon Costing room Observations: Warfe filters collected in	Roll No: 1 Photo No: 8 Date: 4/15 Time: 10'15 Orientation: E SWMU/AOC: Location: Security T costing conv Observations: 1 Drum for collecting all
Roll No: / Photo No: 9 Date: 4/15 Time: 10:20 Orientation: 114) SWMU/AOC: Location: 1020 mg dock w Svol g blog Observations: Setellite two scores and with the state of the st	Roll No: / Photo No: /O Date: 4/5 Time: 10(20) Orientation: NE SWMU/AOC: Location: SOO 49 Observations: Soe 49

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